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REFERENCES

SRIVASTAVA, G. K. (1975): Notes on Indian species of the genus *Irdex* Burr (Dermaptera: Labiidae). *Dr. B. S. Chauhan Comm. Vol.*: 267-278. K. K. Tiwari and C. B. Srivastava (Eds.), Zoological Society of India, Calcutta.

A NEW SPECIES OF *ANEMONE* L. (RANUNCULACEAE) FROM TEHRI DISTRICT (GARHWAL) IN INDIA[1]

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(With seven text-figures)

During the course of studies on "Herbaceous Flora of Tehri District (Garhwal)" a taxon belonging to the genus *Anemone* L. was collected from Gangi (3000 m) in August 1978. A critical study of literature and herbaria shows that it is taxonomically distinct from any other known species of *Anemone* L. and is being described as new.

Anemone raui sp. nov.

A. elongatae D. Don affinis, sed different foliis majoribus, 9-18 (-20) cm daim, floribus in cymis dischasialibus, perianthio anguste obovate, parviore, 9-15 x 4-6 mm, staminibus 20-35, pistillis 3-6, acheniis 1-4, elliptico-ovatis, rostro parum curvato, seminibusque glabris.

Holotypus lectus ad locum Gangi, 3000 m, Garhwal, die 12-8-1978, *A. K. Goel* 64419-A, et positus in herbario BSD.

Herbae erectae, 50-75 cm altae, 0.4-0.6 cm crassae, caudex perennis. Caulis 30-50 cm longus, basi validus, petiolorum fibrosis reliquiis tectus, glaber, villosus ad articulos involucrales. Folia radicalia longipetiolata, petioli 12-32 cm longi, anguste vaginantes ad basin; lamina 9-18 (-20) cm diam, palmatim 3-loba, pentitus cordata, subglabra, pilosa praesertim in nervis, segmenta sessilia, inaequaliter late obovata, profunde vel non profunde 3-partita, cuneata, 5-10 x 4.5-9 cm; segmenta secundaria denuo 3-loba, irregulariter grosse serrata. Inflorescentia varie divisa cyma dichasialis, haud umbella. Involucrum ordinis primi-2, sessile, utrinque 3-5 x 4-6 cm, late obovatum, cuneatum, subglabrum, utrinque pilosum in nervis, segmenta trifida, cuneata, unumquidque segmentum 3-lobum, irregulariter serratum; involucrum ordinis secundi et ultra parvius, late obovatum, cuneatum, segmenta 3-loba, apice acuta, 1.5-3.0 cm longa; pedunculi 5-15 cm longi, pedicelli 2.5-8 cm longiis medianus semper parvior, sursum parum puberulus ad pubescens. Perianthium 5, anguste obovatum, 9-15 x 4-6 mm, album, glabrum. Stamina 20-35, filamenta 1.5-3 mm longa, complanata ad filiformia, inaequalia, antherae 0.8-1.2 mm longae, anthera exterior lineari elliptica, ea interior late obovata. Pistilla 3-6, sessilia, 3.0-3.5 mm longa,

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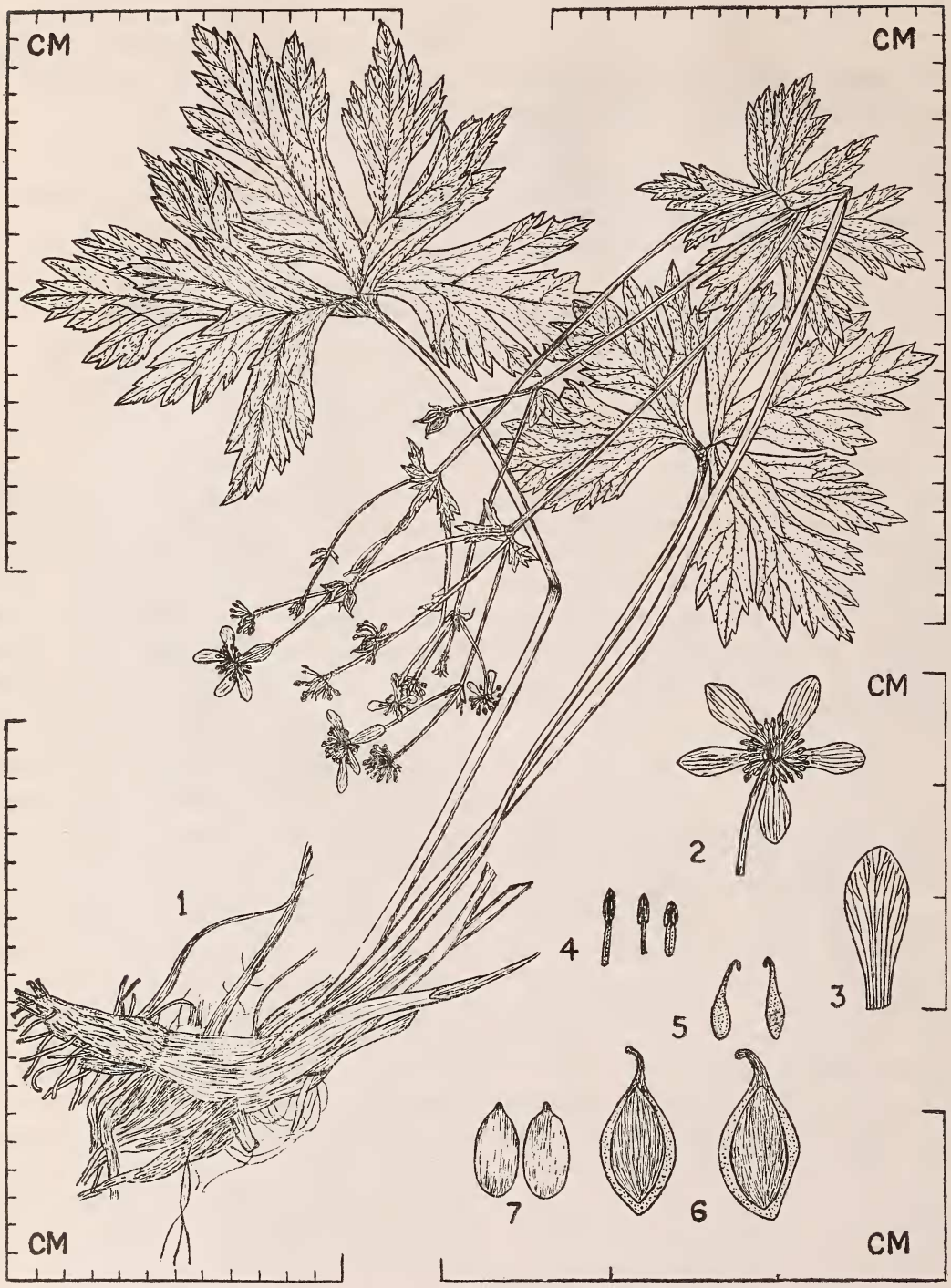

Figs. 1-7. *Anemone raui* sp. nov.: 1. Habit; 2. Flower; 3. Petal; 4. Stamens; 5. Gynoecia; 6. Achenes; 7. Seeds. (*Goel* 64419A, BSD).

glabra, ovarium compressum, lineari-ovatum, stylo leniter curvato, in stigmatis apice obtusum angustato. Achenia, maturitates attingentes, pauca (1-4), plana, elliptico-ovata, 5-7 x 3-4 mm, symmetrica. Stylus persistens, parum curvus, ad achenium contiguous, anguste marginatus. Semina plana, 5-6 x 2.5 mm, late lanceolata, atro-brunnea, glabra.

Anemone raui sp. nov.

Allied to *Anemone elongata* D. Don, but differs in its large 9-18 (-20) cm across leaves; inflorescence a dichasial cyme; perianth narrowly obovate, smaller, 9-15 x 4-6 mm; stamens 20-35; pistils 3-6; achenes 1-4, elliptic-ovate beak slightly curved. Seeds glabrous.

Holotype: GARHWAL: Gangi 3000 m, 12-8-1978; *A. K. Goel* 64419-A, deposited at the Herbarium of the Botanical Survey of India, Northern Circle, Dehra Dun (BSD).

Erect herbs 50-75 cm high, 0.4-0.6 cm thick; root stock perennial. Stem 30-50 cm long, base stout covered with fibrous remains of petioles, glabrous, villous at involucral joints. Radical leaves long petiolate; petioles 12-32 cm long, narrowly sheathing at base; lamina 9-18 (-20) cm across, palmately 3-lobed, deeply cordate, subglabrous, hairy chiefly on nerves; segments sessile, unequally broadly obovate, deeply or shallowly 3-partite, cuneate, 5-10 x 4.5-9 cm; secondary segments again 3-lobed, irregularly coarsely serrate. Inflorescence a variously divided lax dichasial cyme, never in umbels. Involucres of first order-2, sessile, each 3-5 x 4-6 cm; broadly obovate, cuneate, subglabrous, hairy on nerves on both surfaces; segments trifid, cuneate, each segment 3-lobed, irregularly serrate; involucres of the second order and above, smaller, broadly obovate, cuneate, segments 3-lobed with acute apex. 1.5-3.0 cm long; peduncles 5-15 cm long. Pedicels 2.5-8 cm long; median always smaller, slightly puberulus to pubescent above. Perianth-5, narrowly obovate, 9-15 x 4-6 mm, white, glabrous. Stamens 20-35; filaments 1.5-3.0 mm long. complanate to filiform, unequal, anthers 0.8-1.2 mm long; outer linear-elliptic, inner broadly ovate. Pistils 3-6, sessile, 3.0-3.5 mm long, glabrous, ovary compressed, linear-ovate with gently curved style, tapering into obtuse stigmatic apex. Achenes few (1-4) attaining maturity, flat, elliptic-ovate, 5-7 x 3-4 mm, symmetrical; style persistent, slightly curved, contiguous to achene, narrowly margined. Seeds flat, 5-6 x 2.5 mm long, broadly lanceolate, dark brown glabrous.

Type: GARHWAL: Gangi 3000 m, 12-8-1978; *A. K. Goel* 64419-A (Holotype-BSD); KUMAON: Below Odiyar 2900 m, 8-8-1972, *C. M. Arora* 49738 (Paratype-BSD); Below Odiyar 3300 m, 6-8-1972, *C. M. Arora* 49636 (Paratype-BSD).

Flowers & Fruits: July-September.

Distribution: INDIA: Garhwal and Kumaon Himalaya in Uttar Pradesh.

Ecology: Common on open grassy slopes, between rocks and near streams in temperate regions.

Etymology: The species has been named in honour of Dr. M. A. Rau, a well known botanist, plant explorer and retired Deputy Director, Botanical Survey of India, Northern Circle, Dehra Dun.

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